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L4 and frequenc\$4 and differ\$5	12

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<u>L3</u>	L1 and oscillat\$4 near neuro\$10 and computer	1	<u>L3</u>
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L2: Entry 1 of 2

File: USPT

Jan 26, 1999

US-PAT-NO: 5864693

DOCUMENT-IDENTIFIER: US 5864693 A

TITLE: Movement control method and chaotic information processing unit using chaotic neural network, and group movement control method

DATE-ISSUED: January 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sawamura; Tsuguo	Chigasaki			JP

US-CL-CURRENT: 700/246; 706/23, 706/26, 708/522

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstracts	Claims	KWIC	Draw D
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☐ 2. Document ID: US 4926064 A

L2: Entry 2 of 2

File: USPT

May 15, 1990

US-PAT-NO: 4926064

DOCUMENT-IDENTIFIER: US 4926064 A

TITLE: Sleep refreshed memory for neural network

DATE-ISSUED: May 15, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tapang; Carlos C.	Portland	OR		

US-CL-CURRENT: 706/26; 326/35, 706/25, 706/30, 706/38, 708/801

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Abstracts	Claims	KWIC	Draw D
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☐ 1. Document ID: US 6397201 B1

Using default format because multiple data bases are involved.

L5: Entry 1 of 12

File: USPT

May 28, 2002

US-PAT-NO: 6397201

DOCUMENT-IDENTIFIER: US 6397201 B1

TITLE: E-cell (equivalent cell) and the basic circuit modules of e-circuits: e-cell pair totem, the basic memory circuit and association extension

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arathorn; David W.	Oakland	CA	94618	

US-CL-CURRENT: 706/33; 706/26, 706/40, 706/42

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 2. Document ID: US 6363369 B1

L5: Entry 2 of 12

File: USPT

Mar 26, 2002

US-PAT-NO: 6363369

DOCUMENT-IDENTIFIER: US 6363369 B1

**** See image for Certificate of Correction ****

TITLE: Dynamic synapse for signal processing in neural networks

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liaw; Jim-Shih	Los Angeles	CA		
Berger; Theodore W.	Los Angeles	CA		

US-CL-CURRENT: 706/15; 706/16, 706/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 6269354 B1

L5: Entry 3 of 12

File: USPT

Jul 31, 2001

US-PAT-NO: 6269354

DOCUMENT-IDENTIFIER: US 6269354 B1

TITLE: General purpose recognition e-circuits capable of translation-tolerant recognition, scene segmentation and attention shift, and their application to machine vision

DATE-ISSUED: July 31, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arathorn; David W.	Oakland	CA	94618	

US-CL-CURRENT: 706/27; 706/38

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. D
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☐ 4. Document ID: US 5553195 A

L5: Entry 4 of 12

File: USPT

Sep 3, 1996

US-PAT-NO: 5553195

DOCUMENT-IDENTIFIER: US 5553195 A

TITLE: Dynamic neural net

DATE-ISSUED: September 3, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meijer; Peter B. L.	Eindhoven			NL

US-CL-CURRENT: 706/31; 706/25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. D
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☐ 5. Document ID: US 5515477 A

L5: Entry 5 of 12

File: USPT

May 7, 1996

US-PAT-NO: 5515477

DOCUMENT-IDENTIFIER: US 5515477 A

TITLE: Neural networks

DATE-ISSUED: May 7, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sutherland; John	Hamilton, Ontario			CA

US-CL-CURRENT: 706/41; 128/925, 706/16, 706/27

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 6. Document ID: US 5446828 A

L5: Entry 6 of 12

File: USPT

Aug 29, 1995

US-PAT-NO: 5446828

DOCUMENT-IDENTIFIER: US 5446828 A

TITLE: Nonlinear neural network oscillator

DATE-ISSUED: August 29, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Woodall; Roger L.	Jewett City	CT		

US-CL-CURRENT: 706/25; 706/16, 706/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 7. Document ID: US 5214745 A

L5: Entry 7 of 12

File: USPT

May 25, 1993

US-PAT-NO: 5214745

DOCUMENT-IDENTIFIER: US 5214745 A

TITLE: Artificial neural device utilizing phase orientation in the complex number domain to encode and decode stimulus response patterns

DATE-ISSUED: May 25, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sutherland; John G.	Hamilton, Ontario			CA

US-CL-CURRENT: 706/17; 706/25, 706/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 8. Document ID: US 5148514 A

L5: Entry 8 of 12

File: USPT

Sep 15, 1992

US-PAT-NO: 5148514

DOCUMENT-IDENTIFIER: US 5148514 A

TITLE: Neural network integrated circuit device having self-organizing function

DATE-ISSUED: September 15, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arima; Yutaka	Hyogo			JP
Tomioka; Ichiro	Hyogo			JP
Hanibuchi; Toshiaki	Hyogo			JP

US-CL-CURRENT: 706/34; 706/25, 708/801

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 9. Document ID: US 5136687 A

L5: Entry 9 of 12

File: USPT

Aug 4, 1992

US-PAT-NO: 5136687

DOCUMENT-IDENTIFIER: US 5136687 A

TITLE: Categorization automata employing neuronal group selection with reentry

DATE-ISSUED: August 4, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edelman; Gerald M.	New York	NY	10028	
Reeke, Jr.; George N.	New York	NY	10021	

US-CL-CURRENT: 706/20; 706/15, 706/25, 706/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 10. Document ID: US 5067095 A

L5: Entry 10 of 12

File: USPT

Nov 19, 1991

US-PAT-NO: 5067095

DOCUMENT-IDENTIFIER: US 5067095 A

TITLE: SPANN: Sequence processing artificial neural network

DATE-ISSUED: November 19, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Peterson; William M.	Scottsdale	AZ		
Anderson; Howard C.	Tempe	AZ		
Leivian; Robert	Chandler	AZ		
Garrison; Sidney C.	Tempe	AZ		

US-CL-CURRENT: 706/33; 706/20, 706/25, 706/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 11. Document ID: US 4926064 A

L5: Entry 11 of 12

File: USPT

May 15, 1990

US-PAT-NO: 4926064

DOCUMENT-IDENTIFIER: US 4926064 A

TITLE: Sleep refreshed memory for neural network

DATE-ISSUED: May 15, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tapang; Carlos C.	Portland	OR		

US-CL-CURRENT: 706/26; 326/35, 706/25, 706/30, 706/38, 708/801

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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☐ 12. Document ID: US 3273125 A

L5: Entry 12 of 12

File: USOC

Sep 13, 1966

US-PAT-NO: 3273125

DOCUMENT-IDENTIFIER: US 3273125 A

TITLE: Self-adapting neuron

DATE-ISSUED: September 13, 1966

INVENTOR-NAME: JAKOWATZ CHARLES V

US-CL-CURRENT: 706/14; 327/361, 706/25, 706/27, 706/38

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw D
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<u>L10</u>	neurocomputer and oscillators and rhythmic and external	0	<u>L10</u>
<u>L9</u>	oscillat\$5 adj neurocomputer	0	<u>L9</u>
<u>L8</u>	oscillatory adj neurocomputer	0	<u>L8</u>
<u>L7</u>	L6 and rhythmic and external	1	<u>L7</u>
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<u>L5</u>	L4 and frequenc\$4 and differ\$5	12	<u>L5</u>
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<u>L2</u>	L1 and oscillat\$4 near neuro\$10	2	<u>L2</u>
<u>L1</u>	706/25-27.ccls.	1031	<u>L1</u>

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☐ 1. Document ID: US 5613039 A**Using default format because multiple data bases are involved.**

L12: Entry 1 of 2

File: USPT

Mar 18, 1997

US-PAT-NO: 5613039

DOCUMENT-IDENTIFIER: US 5613039 A

TITLE: Apparatus and method for motion detection and tracking of objects in a region for collision avoidance utilizing a real-time adaptive probabilistic neural network

DATE-ISSUED: March 18, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wang; C. David	Melville	NY		
Thompson; James P.	Greenlawn	NY		

US-CL-CURRENT: 706/24; 342/70, 706/10, 706/28, 706/31

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 2. Document ID: US 5214745 A

L12: Entry 2 of 2

File: USPT

May 25, 1993

US-PAT-NO: 5214745

DOCUMENT-IDENTIFIER: US 5214745 A

TITLE: Artificial neural device utilizing phase orientation in the complex number domain to encode and decode stimulus response patterns

DATE-ISSUED: May 25, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sutherland; John G.	Hamilton, Ontario			CA

US-CL-CURRENT: 706/17; 706/25, 706/26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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 Pages:133 - 138

[\[Abstract\]](#) [\[PDF Full-Text \(192 KB\)\]](#) **IEEE JNL**
2 Recurrent oscillatory networks of associative memory with Hebbian learning algorithm
Kuzmina, M.; Manykin, E.; Surina, I.;
 Neuroinformatics and Neurocomputers, 1995., Second International Symposium on , 20-23 Sept. 1995
 Pages:246 - 253

[\[Abstract\]](#) [\[PDF Full-Text \(588 KB\)\]](#) **IEEE CNF**
3 Influence of stimuli on the comportment of an artificial neural population
Druaux, F.; Gorka, M.; Faure, A.;
 Neuroinformatics and Neurocomputers, 1992., RNNS/IEEE Symposium on , 7-Oct. 1992
 Pages:846 - 854 vol.2

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1 Comparative estimation of the role of specific and unspecific inputs the arrangement of barrels interaction in the rat somatic cortex
Sukhov, A.G.;

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Pages:207 - 209

[\[Abstract\]](#)
[\[PDF Full-Text \(140 KB\)\]](#)
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2 Study of the role of rhythmic activity in fixation and reproduction of information on the model of neuronlike elements network
Shulgina, G.I.;

Neuroinformatics and Neurocomputers, 1992., RNNS/IEEE Symposium on , 7-Oct. 1992

Pages:1098 - 1106 vol.2

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Hoppensteadt, F.C.; Izhikevich, E.M.;
 Circuits and Systems I: Fundamental Theory and Applications, IEEE Transactions on
 [see also Circuits and Systems I: Regular Papers, IEEE Transactions on]
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2 Pattern recognition via synchronization in phase-locked loop neural networks

Hoppensteadt, F.C.; Izhikevich, E.M.;
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4 Thalamo-cortical interactions modeled by forced weakly connected oscillatory networks

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Pages: 328 - 331 vol.1

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5 Canonical models for mathematical neuroscience

Hoppensteadt, F.C.; Izhikevich, E.M.;

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6 Investigation of minimum inventory variability scheduling policies in large semiconductor manufacturing facility

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9 Computer simulation of a neural prism

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